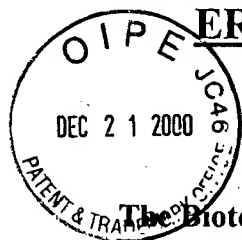
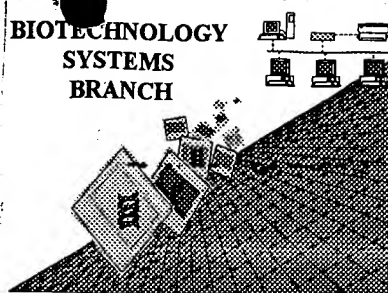


## RAW SEQUENCE LISTING ERROR REPORT



BIOTECHNOLOGY  
SYSTEMS  
BRANCH



0330  
CRF

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/688,848

Source: OIPE

Date Processed by STIC: 12/18/2000

RECEIVED  
JAN-2 2001  
OIPE/JCVIS

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin30help@uspto.gov](mailto:patin30help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

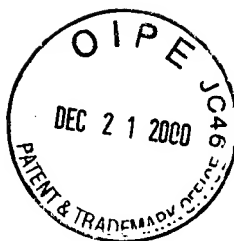
### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>



OIFE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/688,848

DATE: 12/18/2000  
TIME: 13:26:42

Does Not Comply  
Corrected Diskette Needed

Input Set : F:\LIB3229\_30REG.TXT  
Output Set: N:\CRF3\12182000\I688848.raw

1 <110> APPLICANT: Andersen, Scott E.  
2 Masucci, James D.  
4 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With  
5 Plants  
7 <130> FILE REFERENCE: 38-21(51463)B  
9 <140> CURRENT APPLICATION NUMBER: US/09/688,848  
9 <141> CURRENT FILING DATE: 2000-10-16  
9 <150> PRIOR APPLICATION NUMBER: US 60/159,589  
11 <151> PRIOR FILING DATE: 1999-10-18  
13 <160> NUMBER OF SEQ ID NOS: 6041  
15 <210> SEQ ID NO: 1  
16 <211> LENGTH: 429  
17 <212> TYPE: DNA  
18 <213> ORGANISM: Lilium asiatic  
20 <223> OTHER INFORMATION: Clone ID: LIB3229-001-P1-K1-A1  
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26 ctgcgtccgc tgtggccgct gcagcttcca cctccagaag agccgctgct cctcttgcgc 120  
28 clatcccgcc gctcggatcc gcaaatataa ctggagcgct aaggcgatcc gccggaagac 180  
30 gactggcact ggcaggatgc gctacctccg ccatgtcccc cgtcgttcca agagcaactt 240  
32 ccgtgaagcc actgaagcag ctcccaggaa gaagggccgc gccgctgctt ccttctaaag 300  
34 agtgagaact tggaaatttc tggctcaatt tagctcaatt gttatggatc ttgtatgagt 360  
36 gggtttgatt ccaggcttat gttgttgaat ggtgaagtaa tgatttgcga attatgtaga 420  
38 cttaaaagac 429  
41 <210> SEQ ID NO: 2  
42 <211> LENGTH: 119  
43 <212> TYPE: DNA  
44 <213> ORGANISM: Lilium asiatic  
46 <223> OTHER INFORMATION: Clone ID: LIB3229-001-P1-K1-A10  
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52 catcttgta aagaaggctc agtagctctt gttgaatata atgataggaa aatgtttga 119  
55 <210> SEQ ID NO: 3  
56 <211> LENGTH: 379  
57 <212> TYPE: DNA  
58 <213> ORGANISM: Lilium asiatic  
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66 aacattgggt caaataaggt atagtaggtg ttgatgaata caatgatagg aaaaatgttl 120  
68 gaagtttaagc tggaggagat gaaatcagct ttcataaccc aaattgataa agaggccggt 180  
70 atatctgaag tcatagagac tgcgaagcaa tagtccaagg atgcttagtl acctgaaatt 240  
72 gaaatcatac ttatcttggt agatgtttta atggaatgctc ttcagagqac tgggaagaa 300  
74 caacaataaa atgacctatgc gacacttccc cttgttaaaa cttgagctaa ctgatgaa 360  
76 caatttacc aaattgtaa 379  
79 <210> SEQ ID NO: 4  
80 <211> LENGTH: 259

pp 1-5

<220> ← insert this mandatory  
numerical identifier  
whenever <221>  
<222>, or <223>  
is shown  
(global error)

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/688,848

DATE: 12/18/2000  
 TIME: 13:26:42

Input Set : F:\LIB3229\_30REG.TXT  
 Output Set: N:\CRF3\12182000\I688848.raw

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82 <213> ORGANISM: Lilium asiatic
84 <223> OTHER INFORMATION: Clone ID: LIB3229-001-P1-K1-A12
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90 gclggtagac tgtgcctacg cattcaataa cttcggatgc aatgggtgggt tgcgcgtccca 120
92 agccttcgaa tacattaaat tcaatggtgg ccttgacacc gaagaatcgt acccctacgc 180
94 cggatccaat ggcatttgca acttcaaat cgacaggatt ggaagcaagg gcaccgactt 240
96 aattaacatc accctggga 259
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100 <211> LENGTH: 90
101 <212> TYPE: DNA
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104 <223> OTHER INFORMATION: Clone ID: LIB3229-001-P1-K1-A2
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124 gaagggcaaa ggcgcttcca agccgaagggt gaagggcgcg gcgaagccta agcctgttgc 120
126 caagcccaag gcgaaggccc cagctgcaaa gccaaagcct gcgcaccaag ctgcggcgaa 180
128 gccgaaggcg gctcctcggc cggcgccaaa ggctcgccct gcaaaaggcg ccaagacctc 240
130 gcgcaaggac gctcccqcaa agaaggtcgc tgcctcggtc aagaaggcat tagccccacc 300
132 accggtcaag aaagcattag cccaccacc gccgaagaag gctgtgcccg tgagaaggct 360
134 gctcctgcag cgaagaagaa ggcggcgact ccagcgaagg ggaagtcccc ggcgagaaaa 420
136 gcgcctgcaa ggaaggcggc caagaagtag gcttttgatl cgtgatcccg atggg 475
139 <210> SEQ ID NO: 7
140 <211> LENGTH: 464
141 <212> TYPE: DNA
142 <213> ORGANISM: Lilium asiatic
144 <223> OTHER INFORMATION: Clone ID: LIB3229-001-P1-K1-A4
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150 actgaaatca agaagctctg atccatcaat cgtgccttgg aaaggtggag taataatttg 120
152 tgtcctcgac ttgggtcgtg aaqcatgggt ccataagagag gagtggatag agaattggaat 180
154 tcacalaggg agtggcagaa aatcacgtgg atcatattat acgcaggcac ttgctatgtg 240
156 ttatataaat tcttaataga tgcaaggctg gttggtttaa agaaaacttc atcttcttta 300
158 aactggaaga gtttgttctc atggaggtga qcatactct ctcaatggta ttgattgaag 360
160 aaaagatgtc gatatgcac cattggaggg gaagtgatgg ctacatccaa catatgtgac 420
162 ttgggactag ttgaacatg aaattttggt acaagtgaat gaac 464
165 <210> SEQ ID NO: 8
166 <211> LENGTH: 382
167 <212> TYPE: DNA
168 <213> ORGANISM: Lilium asiatic

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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/688,848

DATE: 12/18/2000  
 TIME: 13:26:42

Input Set : F:\LIB3229\_30REG.TXT  
 Output Set: N:\CRF3\12182000\I688848.raw

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 171 <221> NAME/KEY: unsure  
 172 <222> LOCATION: (1)..(382)  
 173 <223> OTHER INFORMATION: unsure at all n locations  
 174 <223> OTHER INFORMATION: Clone ID: LIB3229-001-PI-K1-A5  
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 180 tttatgttga ctgggcattc agcagtggcc cttrcaagcg cagaattgca aggagaagggt 120  
 182 cactctccgcg tgcctgcgtc tcaaggagcc cgaaggggag atattaatgc tgttaatttc 180  
 184 ctaactttgtg gcagggggat gagtgggatt ngaaagcaga tttctatgtg gtctgagcgt 240  
 186 taaccataact gctgtcgcga gaggttcata tgaatgcatt gaattctgtt atgtttcaat 300  
 188 gattataagt tatggattga tatcggggct gtttaqaccc gtttaaccaga cttctggcga 360  
 190 ttgtggttg gttatgtttc ac 382  
 193 <210> SEQ ID NO: 9  
 194 <211> LENGTH: 458  
 195 <212> TYPE: DNA  
 196 <213> ORGANISM: Lilium asiatic 7/2207  
 198 <223> OTHER INFORMATION: Clone ID: LIB3229-001-PI-K1-A6  
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 204 agagggcgagc agtcaggtac tccgtctcttg gagggatcct ttatcgacga tcccacaacg 120  
 206 cgcctctctc aaagtgctgc cgaaccagag aggtaaaaag gatcctgact ggagtacacg 180  
 208 aagggaatttg cggcgccac cccggagctc gcacattgyc aaacaagata ttgttatgcg 240  
 210 gatactattg gccacagcttg cgtgagagc cgaagaccga tgtcgacatc tgcgacaaat 300  
 212 gccaatgcta cgcgggcatt ccaagctgc cctcgaccaa gcagatccgq tggctgcgcg 360  
 214 atggccattc gacatgttaag ggatcgacct tattaggcct ttccctctt gccacagag 420  
 216 gttgtaaaata caccatcgtc gcggtagact acttcacc 458  
 219 <210> SEQ ID NO: 10  
 220 <211> LENGTH: 393  
 221 <212> TYPE: DNA  
 222 <213> ORGANISM: Lilium asiatic 7/2207  
 224 <223> OTHER INFORMATION: Clone ID: LIB3229-001-PI-K1-A8  
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 228 cccacgcgtc cggcatgac ctgcaggctg tttttgtacc ctgacatgag gtttcgagac 60  
 230 attgtcagcg gttggccagg gaggctgaac gactttcagg tgttaagcag ctccgggattc 120  
 232 ttcaagcaat gcgaccaagg catgagactg aacgggaaga agattgatct cttggaaggga 180  
 234 tcggaagtga gagaatacat catcggtgat gctggattcc cgtcctctcc ctggcttacc 240  
 236 actccatata ctgggaagga acttacggat tcatgtctg agtlttaaca gcggcacttc 300  
 238 gccacgagaa tggttgttca gagagcacta gcaagactga aagaggtgtg gagaatggtc 360  
 240 agggagaact tgggcgaccg gataggcata aac 393  
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 244 <211> LENGTH: 455  
 245 <212> TYPE: DNA  
 246 <213> ORGANISM: Lilium asiatic 7/2207  
 248 <223> OTHER INFORMATION: Clone ID: LIB3229-001-PI-K1-B1  
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 252 aacaaaacat ggaagccaa acacaccaac atatatatgt tcatcaagc ggcagggttg 60  
 254 atgttctggc tccagaacca cgaaggagc taagcagtg tcatatacct aggagtaaat 120  
 256 gtatccccta tgaccagatg ctgtatagct cacaatgct gtlgtctccc gaagacgcca 180

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/688,848  
 DATE: 12/18/2000  
 TIME: 13:26:42

Input Set : F:\LIB3229\_30REG.TXT  
 Output Set: N:\CRF3\12182000\I688848.raw

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258 ggaaacgggt tgaacagaa qgcacctcgt tggatcgcc tgggtcgct tcttctgga 240
260 cagggtgtaac tgcattgata ctatccctgg gtctccatcg gatcggaag actgatgtcc 300
262 ctgttttaaga cgggtcgtgg actgaatggg cgtcccaacc agatcgctta ttgtcactat 360
264 gtgatttgac tgggtgtgfc ttatgtccct gtctacgacg ggtcgtggac tgaatgggag 420
266 tcccaaccag atgcgttaat tgtcactatg tgatt 455
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270 <211> LENGTH: 303
271 <212> TYPE: DNA
272 <213> ORGANISM: Lilium asiatic
274 <223> OTHER INFORMATION: Clone ID: LIB3229-001-P1-K1-B11
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278 qccctccgc cttcccttc aggatgtga cattattgga qgcattgaa ctgtgccagt 60
280 cggccgtgtg gaaactggta ttgtgagagc ctgttatggt agtgactttt qggcccaactg 120
282 gtctgaccac tgaagttaag tctgttgaga tgcacratga ggctctcctt gaagccttcc 180
284 ctggtgacaa tgtgggattt aatgtgaaga atgtlgetyt caaggatctt aagcgtgggt 240
286 ttgttgcctt gaacttcaag gttgaccctt tcaaggaggg qgtcaacttt actttccagg 300
288 tta 303
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293 <212> TYPE: DNA
294 <213> ORGANISM: Lilium asiatic
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304 ctccgccac ctaacggat ccggcaagat ggagcttctt cactggacgg atatgtgaaa 180
306 gactgggaag ttaaggagc ttgctccata tgaccctgac tggtaactta ttagaactgc 240
308 ttcaatggcg aqaagatct atctgaggca aggagttgga gtgggtgctt ttagaagat 300
310 ataattgggg tcqcaaga 318
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314 <211> LENGTH: 245
315 <212> TYPE: DNA
316 <213> ORGANISM: Lilium asiatic
318 <223> OTHER INFORMATION: Clone ID: LIB3229-001-P1-K1-B2
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324 tggtttacc ttcatatcaa aactggctgg atcagacatc ttagatatat tgaaaagtgt 120
326 caagaaaaga tcagagactg tgaacactga cgaagatccc agtgggttgc gtcctacttt 180
328 tacatttgtt gattatttga atgataaata tacaagaag tccaagatga aggtcgatgg 240
330 cagtg 245
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335 <212> TYPE: DNA
336 <213> ORGANISM: Lilium asiatic
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344 gagtatactg aagccttagc catactcaca aacctcgtga aagaggtcag aaggttagac 120
346 gacaaattac tgcgttgga catcgatctg ctcgagagca agcttcaact ctctctaaag 180

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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/688,848

DATE: 12/18/2000  
 TIME: 13:26:42

Input Set : F:\LIB3229\_30REG.TXT  
 Output Set: N:\CRF3\12182000\I688848.raw

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348 aacctcccca aggcgaagc cgcactcacc gcagcaagaa cgcctgcgaa cgcctcLac 240
350 glaccccccag cacagcaggg caccatcyac ctccagagcg ggattctgca cgcgaagaa 300
352 aaaqaactaca agactqctta cagctacttc tatqagcat ttgagqcttt aacgcactcg 360
354 agqatccccc tgctgtgttt agtctgaagt acatgctgct qtgcaagata atggtgagcc 420
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360 <211> LENGTH: 114
361 <212> TYPE: DNA
362 <213> ORGANISM: Lilium asiatic >C2207
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370 ctcttacata gggaggccta aatataattc actgggcgtg qcaccacaac gcaa 114
373 <210> SEQ ID NO: 17
374 <211> LENGTH: 375
375 <212> TYPE: DNA
376 <213> ORGANISM: Lilium asiatic >C2207
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384 acgggactcg ttgccataaa tggqaaaaca tcaggcgatg aaggtgaagc tgtagtagat 120
386 galagcgagc tctaglttgg ctagaattat gaatagcatt ggctcttcca aacctctacc 180
388 tagaattatg caatattttc ctgtctcaag ctaggcttct acaatcaagt tcagaaatca 240
390 gtattatgaa cattgacagg atatatataa ttatagatag gqctttttaa gagatgtccg 300
392 cctttatcat cttcttctgt tatatcatga aactggatat caaagtaaga atcaattctt 360
394 ttcttaacggg aggat. 375
397 <210> SEQ ID NO: 18
398 <211> LENGTH: 376
399 <212> TYPE: DNA
400 <213> ORGANISM: Lilium asiatic >C2207
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410 aagaaactac agaattccaa aaaacaaaat atactctacc agaccgact gcagaagaag 180
412 agaccatcat ggatacattt gttacgattg tgttagattc atcgggccgg ttggtctcaa 240
414 tattcaaaqc aggaggtgca gacttgcctt tcacatcgac ggtccaggac tgcatttccc 300
416 ttgcgaaggg tagagtgaag gacttaataa gtattttgga ggaactctt cagacatgat 360
418 ggaagatgaa taggaa 376
421 <210> SEQ ID NO: 19
422 <211> LENGTH: 313
423 <212> TYPE: DNA
424 <213> ORGANISM: Lilium asiatic >C2207
426 <223> OTHER INFORMATION: Clone ID: LIB3229-001-PI-K1-C11
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432 aatttttttg aggttgagag tgagttagcc ttttatctct tttatatcat tccctcttta 120
434 atgatgtttg altaagcctt atttgtggg tgaatttaga atcaaaactt agcttaaatc 180
436 tatttatcca gagtattgtt tctggatgtg atgtatgggt alatacaggt actgcatgcc 240

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PSI:

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/688,848

DATE: 12/18/2000  
TIME: 13:26:43

Input Set : F:\LIB3229\_30REG.TXT  
Output Set: N:\CRF3\12182000\I688848.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:934 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40  
L:1250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54  
L:1252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54  
L:1254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54  
L:1256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54  
L:1258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54  
L:1260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54  
L:1416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61  
L:1418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61  
L:1420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61  
L:1422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61  
L:1424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61  
L:1426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61  
L:1700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74  
L:2310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100  
L:2546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110  
L:2838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123  
L:2926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127  
L:2928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127  
L:2938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127  
L:2966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128  
L:3480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149  
L:4082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176  
L:4276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185  
L:4304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:186  
L:4354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188  
L:4914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:215  
L:5260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:231  
L:5262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:231  
L:5334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234  
L:5558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245  
L:5564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245  
L:5566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245  
L:5676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:250  
L:6118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:270  
L:6122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:270  
L:6626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294  
L:6628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294  
L:6658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:295  
L:6810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302  
L:7592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:338  
L:7884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:351  
L:8038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:357  
L:8058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:358

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/688,848

DATE: 12/18/2000

TIME: 13:26:43

Input Set : F:\LIB3229\_30REG.TXT

Output Set: N:\CRF3\12182000\I688848.raw

L:8060 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:358  
L:8062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:358  
L:8064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:358  
L:8066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:358